Index of Claims



Application/Control No.

Applicant(s)/Patent under Reexamination

10/653,785

Examiner

GROCHOWSKI ET AL. Art Unit

Christopher S. McCarthy

2113

| √ | Rejected |
|---|----------|
| _ | Allowed  |

| 1 | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Tell   File   File | Cla  | Date     |          |  |   |     |        |   | Claim Date |   |   |   |       |          |   |   |  |   |   |   |   |
|---|--|----------|----------|--|---|-----|--------|---|------------|---|---|---|-------|----------|---|---|--|---|---|---|---|
| 1   | <del>                                     </del> |          | $\vdash$ |  |   | T . | 1      | Ť | Ι          |   |   |   |       |          | 7 | _ |  |   |   | ř | Т |
| 2   | Final  | Original | 90/06/6  |  |   |     |        |   |            |   |   |   | Final | Original |   |   |  | į |   |   |   |
| 1   |  |          | V        |  |   |     |        |   |            |   |   | 1 |       | 51       |   |   |  |   |   |   | t |
| 3   \( \)   | F  | 2        | 1        |  |   |     | $\Box$ |   |            | _ |   | ĺ |       |          |   |   |  |   |   |   | t |
| 4   5   5   55   55   56   55   56   57   58   57   58   59   59   59   59   59   59   59   59   59   59   59   59   59   59   60   |  |          | 1        |  |   |     |        |   |            |   |   | ĺ |       |          |   |   |  |   |   |   | t |
| 5   |  | 4        |          |  |   |     | Г      |   |            |   |   |   |       | 54       |   |   |  |   |   |   | t |
| 7   |  |          |          |  |   |     |        |   | Г          |   |   |   |       |          |   |   |  |   |   |   | T |
| S   |  |          |          |  |   |     |        |   |            |   | Г |   |       | 56       |   |   |  |   |   |   | T |
| 9   \  \  10   \  \  \  \  10   \  \  \  \  \  10   \  \  \  \  \  \  \  \  \  \  \  \  \   |  | 7        | I        |  |   |     |        |   |            |   |   |   |       |          |   |   |  |   |   |   | T |
| 10  |  |          |          |  |   |     |        |   |            |   |   |   |       |          |   |   |  |   |   |   | T |
| 111   √     12   62     13   √     14   √     15   √     16   √     17   √     18   66     19   √     20   √     21   √     22   √     23   73     24   74     25   75     26   76     27   77     28   78     29   78     30   √     31   √     32   √     33   √     34   84     35   86     36   86     37   87     38   88     39   90     41   91     42   92     43   94     44   94     45   96     47   97     48   98     49   99  |  | 9        |          |  |   |     |        |   |            |   |   |   |       | 59       | Ì |   |  |   |   |   | T |
| 12  |  | 10       |          |  |   |     |        |   |            |   |   |   |       |          |   |   |  |   |   |   | Ī |
| 13    V   |  |          | 1        |  |   |     |        |   |            |   |   |   |       |          |   |   |  |   |   |   | T |
| 14 √   √     15 √   √     16 √   √     17 √   √     18   66     19 √   69     20 √   70     21 √   71     22 √   73     24   74     25 =   76     27 =   77     28 =   78     29 =   78     30 √   80     31 √   82     33 √   83     34    84     35    86     37    88     39    88     40    90     41    91     42    92     43    94     44    94     48    98     49    99  |  |          |          |  |   |     |        |   |            |   |   |   |       |          |   |   |  |   |   |   | T |
| 15   \( \lambda \)  |  |          | 1        |  |   |     |        |   |            |   |   |   |       | 63       |   |   |  |   | - |   | T |
| 15 √   65   66     17 √   68   67     18   68   69     20 √   70   71     21 √   72   73     24   74   75     26 =   76   77     28 =   76   77     28 =   78   79     30 √   80   81     32 √   83   84     33 √   83   84     35   86   86     37   88   89     40   90   90     41   91   92     43   44   94     45   96   96     47   97   98     48   98   99   |  |          |          |  |   |     |        |   |            |   |   |   |       | 64       |   |   |  |   |   |   | T |
| 17  |  |          | 1        |  |   |     |        |   |            |   |   |   |       | 65       |   | - |  |   |   |   | T |
| 18   68     19   69     20   70     21   70     21   71     22   73     24   74     25   75     26   76     27   77     28   79     30   80     31   80     31   80     31   80     33   80     33   80     33   80     33   80     33   80     33   80     33   80     33   80     33   80     33   80     34   84     35   85     36   86     37   87     38   88     39   90     41   91     42   92     43   94     44   94     45   96     47   97   |  | 16       |          |  |   |     |        |   |            |   |   |   |       | 66       |   |   |  |   |   |   | Ť |
| 19 √   69     20 √   70     21 √   71     22 √   73     24   74     25 =   75     26 =   76     27 =   77     28 =   78     29 =   79     30 √   80     31 √   81     32 √   83     33 √   83     34    84     35    85     36    86     37    87     38    88     39    90     40    90     41    91     42    92     43    94     44    94     45    96     47    97     48    98     49    99  |  |          | 1        |  |   |     |        |   |            |   |   |   |       | 67       |   |   |  |   |   |   | T |
| 20   V  |  |          |          |  |   |     |        |   |            |   |   |   |       |          |   |   |  |   |   |   | T |
| 21  |  |          | 1        |  |   |     |        |   |            |   |   | 1 |       | 69       |   |   |  |   |   |   | T |
| 22  |  | 20       | 1        |  |   |     |        |   |            |   |   | ] |       | 70       |   |   |  |   |   |   | T |
| 23  |  | 21       | 1        |  |   |     |        |   |            |   |   | Ì |       | 71       |   |   |  |   |   |   | T |
| 23  |  | 22       | ٧        |  |   |     |        |   |            |   |   | 1 |       | 72       |   |   |  |   |   |   | Ť |
| 25 =   75     26 =   76     27 =   77     28 =   78     29 =   79     30 √   80     31 √   81     32 √   83     33 ∨   83     34 34   84     35 36   85     36 37   87     38 8   88     39 9   89     40 90   90     41 91   91     42 92   92     43 94   94     45 95   96     47 97   98     48 99   99   |  | 23       |          |  |   |     |        |   |            |   |   |   |       | 73       |   |   |  |   |   | Г | T |
| 26 =   76     27 =   77     28 =   78     29 =   79     30 √   80     31 √   81     32 √   83     33 ∨   83     34 34   84     35 36   85     36 37   86     37 38   88     39 40   90     41 99   91     42 92   92     43 93   94     44 99   99  |  | 24       |          |  |   |     | _      |   |            |   |   | 1 |       |          |   |   |  |   |   |   | t |
| 26 =   76     27 =   77     28 =   78     29 =   79     30 √   80     31 √   81     32 √   83     33 ∨   83     34 34   84     35 36   85     36 37   86     37 38   88     39 40   90     41 99   91     42 92   92     43 93   94     44 99   99  |  | 25       | =        |  |   |     |        |   |            |   |   |   |       | 75       |   |   |  |   |   |   | T |
| 27 =   77     28 =   78     29 =   79     30 √   80     31 √   81     32 √   83     34 34   84     35 36   85     36 37   87     38 8   88     39 9   88     40 90   90     41 91   91     42 92   92     43 93   94     45 95   96     47 97   98     48 99   99   |  | 26       | =        |  |   |     |        |   |            |   |   | 1 |       | 76       |   |   |  |   |   |   | T |
| 28 =   78     29 =   79     30 √   80     31 √   81     32 √   83     33 ∨   83     34 34   84     35 36   85     36 37   87     38 8   88     39 9   88     40 90   90     41 91   91     42 92   93     43 93   94     44 99   99   |  | 27       | =        |  |   |     |        |   |            |   |   | 1 |       | 77       |   |   |  | _ |   |   | Ť |
| 29 = 79   30 √ 80   31 √ 81   32 √ 82   33 √ 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 96   47 97   48 98   49 99   |  | 28       | =        |  |   |     |        |   |            |   |   | 1 |       |          |   |   |  |   |   |   | T |
| 31 √   32 √   33 √   34 84   35 85   36 86   37 87   38 88   39 88   40 90   41 91   42 92   43 94   45 95   46 96   47 97   48 98   49 99  |  | 29       | =        |  |   |     |        |   |            |   | Г |   |       | 79       |   |   |  |   |   |   | Ť |
| 31   √     32   √     33   ∨     34   84     35   85     36   86     37   87     38   87     39   88     40   90     41   91     42   92     43   94     44   94     45   96     47   97     48   98     49   99  |  | 30       | 1        |  |   |     |        |   |            |   |   |   |       | 80       |   |   |  |   |   |   | T |
| 33 v   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99  |  |          |          |  |   |     |        |   |            |   |   | ] |       |          |   |   |  |   |   | Г | T |
| 34 84   35 85   36 86   37 87   38 87   39 88   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  |          | 1        |  |   |     |        |   |            |   |   |   |       | 82       |   |   |  |   |   |   | T |
| 35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99   |  | 33       | ٧        |  |   |     |        |   |            |   |   |   |       | 83       |   |   |  |   |   |   | T |
| 36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99   |  | 34       |          |  |   |     |        |   |            |   |   |   |       | 84       |   |   |  |   |   |   | T |
| 37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99   |  | 35       |          |  |   |     |        |   |            |   |   |   |       | 85       |   |   |  |   |   |   | T |
| 37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99   |  | 36       |          |  |   |     |        |   |            |   |   |   |       | 86       |   |   |  |   |   |   | Ť |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 37       |          |  |   |     |        |   |            |   |   | 1 |       |          |   |   |  |   |   |   | T |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 38       |          |  |   |     |        |   |            |   |   |   |       | 88       |   |   |  |   |   |   | T |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 39       |          |  |   |     |        |   |            |   | П | 1 |       |          |   |   |  |   |   |   | T |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 40       |          |  |   |     |        |   |            |   |   | 1 |       | 90       |   |   |  |   |   |   | t |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 41       |          |  |   |     |        |   |            | П |   |   |       | 91       |   |   |  |   |   |   | t |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 42       |          |  |   |     |        |   |            |   |   |   |       | 92       |   |   |  |   |   |   | Ť |
| 44 94   45 95   46 96   47 97   48 98   49 99   |  | 43       |          |  |   |     |        |   |            |   |   |   |       | 93       |   |   |  |   |   |   | Ţ |
| 45 95 96 96 97 97 97 98 98 99 99 99 99  |  |          |          |  |   |     |        |   |            |   |   |   |       | 94       |   |   |  |   |   |   | T |
| 46 96 97 97 98 98 99 99 99 99 99 99 99 99 99 99 99  |  |          |          |  |   |     |        |   |            |   |   |   |       | 95       |   |   |  |   |   |   | Ť |
| 47  |  | 46       |          |  |   | Ľ   |        |   |            |   |   |   |       | 96       |   |   |  |   |   |   | T |
| 48 98 99  |  | 47       |          |  |   |     |        |   |            |   |   |   |       | 97       |   |   |  |   |   |   | Ť |
| 49 99 99  |  |          |          |  | L |     |        |   |            |   |   |   |       | 98       |   |   |  |   |   |   | Ţ |
| 50 100 100  |  |          |          |  |   |     |        |   |            |   |   |   |       | 99       |   |   |  |   |   |   | Ţ |
|   |  | 50       | 匚        |  |   |     |        |   |            |   |   |   |       | 100      |   |   |  |   |   |   | ſ |

| С        | laim     |              |          |          | [        | Date     | •        |          |          |          |
|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Final    | Original |              |          |          | i        |          |          |          |          |          |
|          | 51       |              |          |          |          |          |          | _        |          |          |
|          | 52<br>53 |              |          |          |          |          | _        | _        |          |          |
|          | 53       |              |          | Ш        | _        |          |          |          |          |          |
|          | 54       |              |          |          |          |          |          |          |          |          |
|          | 54<br>55 |              |          |          |          |          |          |          |          |          |
|          | 56       |              |          |          |          |          |          |          |          |          |
|          | 57<br>58 |              |          |          |          |          |          |          |          |          |
|          | 58       |              |          |          |          |          |          |          |          |          |
|          | 59       |              |          |          |          |          |          |          |          |          |
|          | 60       |              |          |          |          |          |          |          |          |          |
|          | 61       |              |          |          |          |          |          |          |          |          |
|          | 62       |              |          |          |          |          |          |          |          |          |
|          | 63       |              |          |          |          |          |          |          |          |          |
|          | 64       |              |          |          |          |          |          |          |          |          |
|          | 65       |              |          |          |          |          |          |          |          |          |
|          | 66       |              |          |          |          |          |          |          |          |          |
|          | 67       |              |          |          |          |          |          |          |          |          |
|          | 68       |              |          |          |          |          |          |          |          |          |
|          | 69       |              |          |          |          |          |          |          |          |          |
|          | 70       |              |          |          |          |          |          |          |          |          |
|          | 71       |              |          |          |          |          |          |          |          |          |
|          | 72       |              |          |          |          |          |          |          |          |          |
|          | 72<br>73 |              |          |          |          |          |          |          |          |          |
|          | 74<br>75 |              |          |          |          |          |          |          |          |          |
|          | 75       |              |          |          |          |          |          |          |          |          |
|          | 76       |              |          |          |          |          |          |          |          |          |
|          | 77       |              |          |          |          |          |          |          |          | L.,      |
|          | 78       |              |          | L        |          |          |          |          |          |          |
|          | 79       |              |          |          |          |          |          |          |          |          |
|          | 80       | _            |          | <u> </u> | <u> </u> |          |          |          |          |          |
| ļ        | 81       |              |          |          |          |          |          |          |          |          |
|          | 82       |              |          |          |          |          |          |          |          |          |
|          | 83       |              |          |          |          |          |          |          |          |          |
| <u> </u> | 84<br>85 | L.           |          | <u> </u> |          |          |          |          |          |          |
| <u> </u> | 85       |              |          |          |          |          |          |          |          |          |
| L        | 86       |              |          |          |          |          |          |          |          |          |
|          | 87       |              |          |          |          |          |          |          |          |          |
| <u> </u> | 88       | _            |          |          |          |          |          |          |          |          |
|          | 89       |              |          | <u> </u> |          | _        |          | L        | _        |          |
|          | 90       |              |          | _        |          | <u> </u> |          |          |          |          |
|          | 91       | _            |          | <u> </u> | _        |          |          |          | <u> </u> |          |
|          | 92       | $\vdash$     | <u> </u> |          | <u> </u> | $\vdash$ | <u> </u> | <u> </u> |          |          |
|          | 93       |              | _        |          | _        | _        | _        | <u> </u> |          |          |
|          | 94       | $\vdash$     |          | <u> </u> | <u> </u> |          | <u> </u> | <u> </u> | <u> </u> |          |
|          | 95       | <u> </u>     | _        | <u> </u> | <u> </u> | $\vdash$ | <u> </u> |          | $\vdash$ | _        |
|          | 96       | <u> </u>     |          | <u> </u> | <u> </u> | $\vdash$ | <u> </u> | <u> </u> | $\vdash$ | <u> </u> |
|          | 97       | <del> </del> | <u> </u> | <u> </u> | <u> </u> | $\vdash$ | <u> </u> | <u> </u> | $\vdash$ | <u> </u> |
|          | 98       | <u> </u>     | <u> </u> | ├        | <u> </u> | ⊢        | <u> </u> | <u> </u> | $\vdash$ | -        |
|          | 99       |              | <u> </u> | <u> </u> | <u> </u> | $\vdash$ | <u> </u> | <u> </u> | $\vdash$ | <u> </u> |

| CI          | Date                            |          |     |                                     |  |  |              |          |  |                 |  |
|-------------|---------------------------------|----------|-----|-------------------------------------|--|--|--------------|----------|--|-----------------|--|
|             |                                 |          |     |                                     |  |  |              |          |  |                 |  |
| Final       | Original                        |          |     |                                     |  |  |              |          |  |                 |  |
|             | 101                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | i 102 i                         |          |     |                                     |  |  |              |          |  |                 |  |
|             | 103                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 104<br>105                      |          |     | _                                   | lacksquare                                       |  |              |          |  | Щ               |  |
|             | 105                             | Н        |     | _                                   |  |  |              |          |  | Щ               |  |
|             | 106                             |          |     |                                     |  |  |              |          |  | _               |  |
|             | 107<br>108                      | Н        |     | _                                   | _  |  | _            |          | -  | -               |  |
|             | 109                             |          |     | _                                   |  | _  |              |          |  |                 |  |
|             | 110                             |          | _   | _                                   |  | -  |              |          |  |                 |  |
|             | 110<br>111                      |          |     |                                     |  |  | _            |          |  |                 |  |
|             | 112                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 113                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 114                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 113<br>114<br>115               |          |     |                                     | _  |  |              |          |  |                 |  |
|             | 116                             |          |     | _                                   |  |  |              |          | _  |                 |  |
|             | 117                             |          |     | _                                   | _  |  |              |          | _  |                 |  |
|             | 118<br>119                      |          |     | <u> </u>                            |  |  | _            |          |  | $\vdash$        |  |
|             | 120                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 121                             | H        |     | $\vdash$                            | $\vdash$   | -  |              |          |  |                 |  |
|             | 122                             |          |     | <del> </del>                        | $\vdash$   |  |              |          |  | Н               |  |
|             | 121<br>122<br>123<br>124<br>125 |          |     |                                     |  |  |              |          |  |                 |  |
|             | 124                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 125                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 126<br>127                      |          |     |                                     |  |  | L            | ļ        |  |                 |  |
|             | 127                             |          |     |                                     |  | L  | ļ            |          |  | Ш               |  |
|             | 128                             |          |     | <u> </u>                            | _  |  |              |          | -  |                 |  |
|             | 129<br>130                      |          |     | ┝                                   |  |  |              |          | <u> </u>   | $\vdash$        |  |
| <del></del> | 131                             | _        |     | $\vdash$                            |  | _  |              | -        |  | $\vdash$        |  |
|             | 132                             |          |     | $\vdash$                            | -  | -  |              | Н        | $\vdash$   | Н               |  |
|             | 132<br>133                      |          |     |                                     |  | _  |              |          |  |                 |  |
|             | 134<br>135                      |          |     |                                     |  |  |              |          |  |                 |  |
|             | 135                             |          |     |                                     |  |  |              |          | L  |                 |  |
|             | 136                             | Ш        | L., |                                     |  |  |              |          |  | $  \_  $        |  |
| <u> </u>    | 137<br>138                      | _        |     | _                                   |  |  | L-           |          | _  | Щ               |  |
|             | 138                             | H        |     | _                                   |  | _  | <u> </u>     |          | <u> </u>   | $\vdash \dashv$ |  |
|             | 139<br>140                      |          |     | <u> </u>                            | _  | -  |              | _        | <u> </u>   | Н               |  |
|             | 141                             | $\vdash$ | H   | $\vdash$                            | $\vdash$   | $\vdash$   | <del> </del> | -        | -  | $\vdash$        |  |
| <b> </b>    | 142                             |          |     | $\vdash$                            | $\vdash$   | -  | -            |          |  | $\vdash \vdash$ |  |
|             | 143                             | Н        |     | $\vdash$                            | $\vdash$   | <del>                                     </del> |              |          | <del>                                     </del> | Н               |  |
|             | 144                             | П        | П   | $\vdash$                            | <del>                                     </del> | -  |              |          | 1  | П               |  |
|             | 145                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 146                             |          |     |                                     |  |  |              |          |  |                 |  |
|             | 147                             |          |     |                                     |  |  |              |          |  | Ш               |  |
| <u> </u>    | 148                             |          |     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u> | <u> </u>   | <u> </u>        |  |
|             | 149                             |          | _   | _                                   | <b>—</b>   | _  | <u> </u>     | <u> </u> | <u> </u>   | $\vdash$        |  |
|             | 150                             |          |     | L                                   |  | <u> </u>   | <u>L</u>     |          |  | Ш               |  |